

Missouri

Advanced Manufacturing 2004

Advanced Manufacturing includes those manufacturing industries with a large number of research and development employees relative to the average industry. In Missouri there are just over 1,600 businesses in the Advanced Manufacturing sector.

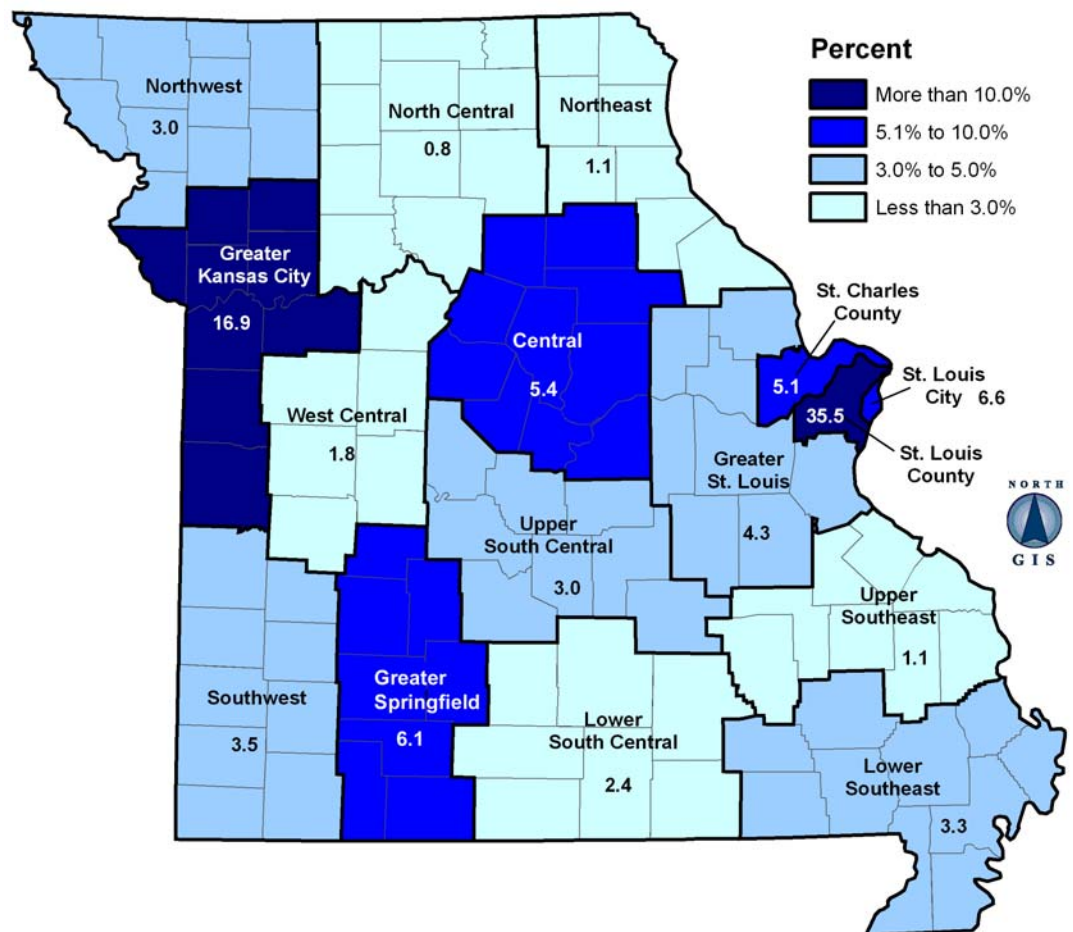
Employment

In 2004, more than 110,000 Missourians were employed in the Advanced Manufacturing sector, making up 4.2 percent of the state's total employment. Since 2001, Advanced Manufacturing employment in Missouri has decreased by about 5.8 percent.

Regionally, more than 68 percent of the state's Advanced Manufacturing employment is found in the St. Louis and Kansas City metropolitan areas. The Springfield and Central regions also account for significant portions of the state's Advanced Manufacturing employment, with 6.1 and 5.4 percent, respectively.

Employment declined in nearly every region from 2001 to 2004. Regions with the largest decreases were the Northeast Region (-33.0 percent) and the North Central Region (-21.6 percent). Only the Northwest Region (+17.4 percent) and the Lower Southeast Region (+8.7 percent) had large gains in Advanced Manufacturing employment.

**Regional Share of Missouri's
Advanced Manufacturing Employment
2004**



Subsector Employment

There have been large employment declines in several subsectors of Missouri's Advanced Manufacturing sector. From 2001 to 2004, Communications Equipment Manufacturing employment in the state decreased by 31.5 percent. Other subsectors with large percentage declines are: Semiconductor and Other Electrical Component Manufacturing (-29.7 percent) and Electrical Equipment Manufacturing (-22.1 percent).

However, some Advanced Manufacturing subsectors have expanded in Missouri since 2001. Employment in Small Arms Ammunition Manufacturing in the state has nearly doubled in the last three years, increasing 91.5 percent. Computer and Peripheral Equipment Manufacturing (+13.9 percent) and Aerospace Product and Part Manufacturing (+13.6 percent) employment has also increased.

Wages

A typical Advanced Manufacturing job pays more than the state average. In 2004, the average annual wage for Advanced Manufacturing in Missouri was \$53,336, while the statewide average wage was \$34,852. Since 2001, the average annual wage for Advanced Manufacturing has increased by 8.8 percent, faster than the state average of 7.5 percent.



Occupations

Some occupations that have a high concentration in the Advanced Manufacturing sector and employ more than 1,000 Missourians are:

Chemical Plant & System Operators

Coil Winders, Tapers, & Finishers

Electrical & Electronic Equipment Assemblers

Aerospace Engineers

Assemblers and Fabricators

Industrial Engineers

Mixing and Blending Machine Setters, Operators, & Tenders

Tool & Die Makers

Machinists

Inspectors, Testers, Sorters, Samplers, & Weighers

Mechanical Engineers

Welders, Cutters, Solderers, & Brazers

Advanced Manufacturing Definition

NAICS	NAICS DESCRIPTION	NAICS	NAICS DESCRIPTION
32411	Petroleum Refineries	3336	Engine, Turbine, and Power Transmission Equipment Mfg.
3251	Basic Chemical Mfg.	3339	Other General Purpose Machinery Mfg.
3252	Resin, Synthetic Rubber, and Artificial and Synthetic Fibers Mfg.	3341	Computer and Peripheral Equipment Mfg.
3253	Pesticide, Fertilizer, and Other Agricultural Chemical Mfg.	3342	Communications Equipment Mfg.
3254	Pharmaceutical and Medicine Mfg.	3343	Audio and Video Equipment Mfg.
3255	Paint, Coating, and Adhesive Mfg.	3344	Semiconductor and Other Electronic Component Mfg.
3256	Soap, Cleaning Compound, and Toilet Preparation Mfg.	3345	Navigational, Measuring, Electromedical, and Control Instruments Mfg.
3259	Other Chemical Product and Preparation Mfg.	3346	Mfg. and Reproducing Magnetic and Optical Media
332992	Ordnance & Accessories Mfg. - Small Arms Ammunition Mfg.	3353	Electrical Equipment Mfg.
332993	Ordnance & Accessories Mfg. - Ammunition (except Small Arms) Mfg.	33599	All Other Electrical Equipment and Component Mfg.
332994	Ordnance & Accessories Mfg. - Small Arms Mfg.	3361	Motor Vehicle Mfg.
332995	Ordnance & Accessories Mfg. - Other Ordnance and Accessories Mfg.	3362	Motor Vehicle Body and Trailer Mfg.
3331	Agriculture, Construction, and Mining Machinery Mfg.	3363	Motor Vehicle Parts Mfg.
3332	Industrial Machinery Mfg.	3364	Aerospace Product and Parts Mfg.
3333	Commercial and Service Industry Machinery Mfg.	3391	Medical Equipment and Supplies Mfg.

The U.S. Bureau of Labor Statistics (BLS) originally defined High-Technology industries by Standard Industrial Classification (SIC) as those industries that employ at least twice as many research and development employees as the average industry. Recently, the U.S. Department of Commerce, Office of Technology Policy converted this list to correspond to the new North American Industry Classification System (NAICS). Those High-Technology Industries that fall within the manufacturing sector are considered Advanced Manufacturing.